Commonwealth of Kentucky Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

Completed by: Carolina Alonso

GENERAL INFORMATION:			
Name:	ISP Chemicals, LLC		
Address:	Highway 95		
	Calvert City, KY 42029		
Date application received:	10/9/2006		
SIC Code/SIC description:	2869, Chemicals and Allied Products		
Source ID:	21-157-00003		
Source A.I. #:	2939		
Activity ID:	APE20060003		
Permit:	V-06-052		
A DDI ICATIONI TYDE/DEDMIT A CTIVITY			
APPLICATION TYPE/PERMIT ACTIVITY:	[] Conoral normit		
[] Initial issuance	[] General permit		
[] Permit modification	[] Conditional major		
Administrative Minor	[X] Title V		
	[X] Synthetic minor		
Significant [X] Permit renewal	[] Operating [Y] Construction/operating		
[A] Ferrint Tenewar	[X] Construction/operating		
COMPLIANCE SUMMARY: [] Source is out of compliance [X] Compliance certification signed	[] Compliance schedule included		
APPLICABLE REQUIREMENTS LIST:			
[] NSR [X] NS	SPS [X] SIP		
	ESHAPS [] Other		
	t major modification per 401 KAR 51:001, 1(116)(b)		
MISCELLANEOUS:			
Acid rain source			
Source subject to 112(r)			
Source applied for federally enforceable emissions cap			
Source provided terms for alternative operating scenarios			
[X] Source subject to a MACT standard			
Source requested case-by-case 112(g) or (j) determination			
[] Application proposes new control technology			
[X] Certified by responsible official			
[X] Diagrams or drawings included			
[X] Confidential business information (CBI) submitted in application			
[] Pollution Prevention Measures			
[] Area is non-attainment (list pollu	tants):		

EMISSIONS SUMMARY:

Pollutant	Actual* (tpy)	Potential (tpy)
PM	17.67	43.56
PM_{10}	17.67	33.14
SO_2	1909.68	3239.92
NO_X	266.33	511.21
CO	118.56	235.80
VOC	408.80	1619.89
Single HAPs > 10 tpy Acetaldehyde Benzene Methanol Toluene Source wide HAPs	0.70 6.08 36.12 1.97 52.85	21.93 235.21 15.54 19.70 312.75

^{*} From "2006 Emissions Survey" (TEMPO)

SOURCE DESCRIPTION:

ISP Chemicals Inc. (ISP) is a large Synthetic Organic Chemical plant that makes a wide variety of intermediates and specialty chemicals. The source is a major source, as defined by 401 KAR 52:020 Title V Permits, for the potential emissions of over 100 tons per year of sulfur dioxide (SO_2), nitrogen oxides (SO_2), carbon monoxide (SO_2), and volatile organic compounds (SO_2), the potential of a single hazardous air pollutant (SO_2) greater than 10 tons per year, and the potential combined HAP emissions greater than 25 tons per year.

The source is also a major source, as defined by 401 KAR 51:017 Prevention of Significant Deterioration of Air Quality (PSD), for potential emissions of over 100 tons per year of SO₂, CO, NO_X, and VOC.

ISP is renewing a sourcewide Title V permit issued on April 12, 2002. The renewal application includes the construction of new reactor and dryer in the 240 Building. Since uncontrolled emissions are over 40 tpy for VOC, the facility has accepted operating limits to preclude the applicability of PSD. There are also several off-permit changes and minor revisions.

EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

In order to preclude applicability of 401 KAR 51:017, Prevention of Significant Deterioration of Air Quality (PSD), the source has elected to accept the following limits:

Area	Equipment	Limit Description	Pollutant
BLO	BLO process unit	The permittee shall calculate and maintain a record of actual process vent emissions, in tons per year on a calendar year basis, of VOC from the BLO process unit.	VOC
240 Building	Reactor 5 and Dryer 4	Emissions shall not exceed 36 ton/yr.	VOC
236 Building	Drum Dryer 236/3506	Actual emissions shall not exceed 36 ton/yr.	VOC
Zurn Boiler	Zurn Boiler	No. 2 Fuel Oil use shall not exceed 700,000 gal/year.	SO_2
Zurn Boiler	Zurn Boiler	Emissions shall not equal or exceed 36 ton/year.	SO_2

OPERATIONAL FLEXIBILITY:

None